| Index of | Claims |
|----------|--------|
|          |        |
|          |        |

| Application No. | Applicant(s)   |  |
|-----------------|----------------|--|
| 10/662,655      | PUHALLA ET AL. |  |
| Examiner        | Art Unit       |  |
| James R Scott   | 2832           |  |

| <b>→</b> | R jected |
|----------|----------|
| II       | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  |
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| ı | Interference |

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| Cla  | Date   |         |  |   |   |        |   |    |        |   |
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| U16  | 1  | ₩       |  | _ | _ | Jati   | _ | т— | _      |   |
| Final  | Original   | 6/22/04 |  |   |   |        |   |    |        |   |
| 1<br>2<br>3<br>4<br>5  | 1<br>2<br>3<br>4<br>5                                    | =       |  |   |   |        |   |    |        |   |
| 2  | 2  | =       |  |   |   |        |   |    |        |   |
| 3  | 3  | =       |  |   |   |        |   |    |        |   |
| 4  | 4  | =       |  |   |   |        |   |    |        |   |
| 5  | 5  | =       |  |   |   |        |   |    |        |   |
| 6  | 6  | =       |  |   |   |        |   |    |        |   |
| 6<br>7   | 7  | =       |  |   |   |        |   |    |        |   |
| 8  | 8  | =       |  | Г |   | Π      |   |    |        |   |
| 9  | 9  | =       |  |   |   |        |   |    | Γ      | Г |
| 10   | 10   | =       |  |   |   |        |   |    |        |   |
| 11   | 11   | =       |  |   |   |        |   |    |        |   |
| 12   | 12   | =       |  |   |   |        |   |    |        |   |
| 13   | 13   | =       |  |   |   |        |   |    |        |   |
| 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23 | 11<br>12<br>13<br>14<br>15<br>16<br>17                   | =       |  |   |   | L      |   |    |        |   |
| 15   | 15   | =       |  |   |   |        |   |    |        |   |
| 16   | 16   | =       |  |   |   |        |   |    |        |   |
| 17   | 17   | =       |  |   |   |        |   |    |        |   |
| 18   | 18   | =       |  |   |   |        |   |    |        |   |
| 19   | 19   | =       |  |   |   | Г      | Г | Г  |        |   |
| 20   | 20   | =       |  | Г |   | Γ      | Г |    |        |   |
| 21   | 21   | =       |  |   |   | Г      |   |    |        |   |
| 22   | 22   | =       |  | П |   |        |   | Г  |        |   |
| 23   | 19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28 | =       |  |   |   | Г      |   |    |        |   |
|  | 24   | _       |  |   |   |        |   |    |        |   |
|  | 25   |         |  |   |   |        |   |    |        |   |
|  | 26   |         |  |   |   |        |   |    |        |   |
|  | 27   |         |  |   |   |        |   |    |        |   |
|  | 28   |         |  |   |   |        |   |    |        |   |
|  | 29   |         |  |   |   |        |   |    |        |   |
|  | 30   |         |  |   |   |        |   |    |        |   |
|  | 31   |         |  |   |   |        |   |    |        |   |
|  | 32   |         |  |   |   | L      |   |    |        |   |
|  | 33   |         |  |   |   |        |   |    |        |   |
|  | 33<br>34   |         |  |   |   |        |   |    |        |   |
|  | 35<br>36   |         |  |   |   |        |   |    |        |   |
|  | 36   |         |  |   |   |        |   |    |        |   |
|  | 37   |         |  |   |   |        |   |    |        |   |
|  | 38<br>39   |         |  |   |   |        |   |    |        |   |
|  | 39   |         |  |   |   |        |   |    |        |   |
|  | 40   |         |  |   |   |        |   |    |        |   |
|  | 41   |         |  |   |   |        |   |    |        |   |
|  | 42   |         |  |   |   |        |   | 匚  | 匚      |   |
|  | 43   |         |  |   |   | $\Box$ |   |    |        |   |
|  | 44   |         |  |   |   |        |   |    |        |   |
|  | 45   |         |  |   |   |        |   | L  | $\Box$ |   |
|  | 46   |         |  |   |   |        |   |    |        |   |
|  | 47   |         |  |   |   |        |   |    |        |   |
|  | 48   |         |  |   |   |        |   |    |        |   |
|  | 49   |         |  |   |   |        |   |    |        |   |
|  | 50   |         |  |   |   |        |   |    |        |   |

| Cla              | im       |         |    |          | _                         | Date         | <u> </u>     |                |                |          | ] [ | Cla    | im       |          |   | - |   | Date |          |          |          |          |
|------------------|----------|---------|----|----------|---------------------------|--------------|--------------|----------------|----------------|----------|-----|--------|----------|----------|---|---|---|------|----------|----------|----------|----------|
| _                |          |         |    | Π        | Г                         |              | Г            |                | Π              |          | 1   |        | _        |          |   |   |   |      |          |          |          |          |
| <u> </u>         | Original | 6/22/04 |    | ŀ        |                           |              |              |                |                |          |     | Final  | Origina  |          |   |   |   |      |          |          |          |          |
| Ē                | Ĕ        | 3/22    |    | ľ        |                           |              |              |                |                |          |     | ᇤ      | Ğ        |          |   |   |   |      |          |          |          |          |
|                  |          | Ľ       |    |          |                           |              |              |                |                |          |     |        |          |          |   |   |   |      |          |          |          |          |
| <u>_</u>         | 1        | =       |    |          |                           |              |              |                |                |          |     |        | 51       |          |   |   |   |      |          |          |          |          |
| <u>2</u>         | 2        | =       |    |          |                           | _            |              |                | <u> </u>       | L_       |     |        | 52       |          |   |   |   |      |          |          |          |          |
| 3<br>4           | 3        | =       |    |          |                           |              |              | _              |                |          |     |        | 53       |          |   |   |   |      |          | <u> </u> |          |          |
|                  | 4        | =       |    |          |                           | <u> </u>     |              |                | _              | ┕        |     |        | 54       |          |   |   |   |      |          | Ш        |          |          |
| <u>5</u><br>3    | 5        | =       | L_ |          | L                         |              |              |                | L_             | _        |     |        | 55       | Ш        |   |   |   |      |          | L        |          |          |
| 3_               | 6        | =       | _  |          | _                         | L            |              | _              | _              | L        |     |        | 56       | Щ        |   |   |   |      |          |          |          |          |
| 7                | 7        | =       | _  | <u> </u> | _                         | <u> </u>     | _            | _              | <u> </u>       |          |     |        | 57       |          |   |   |   |      | _        | _        |          |          |
| 3                | 8        | =       | _  | <u> </u> | <u> </u>                  |              | <u> </u>     |                | <u> </u>       | <u> </u> |     |        | 58       |          |   |   |   |      |          |          |          |          |
| <u> </u>         | 9        | =       |    | _        | _                         | _            | _            | _              | _              | _        |     |        | 59       | Щ        |   |   |   |      |          |          |          |          |
| 0                | 10       | =       |    | _        | $ldsymbol{ldsymbol{eta}}$ |              | _            |                | _              | _        |     |        | 60       | _        |   |   |   |      | _        | $\vdash$ |          |          |
| 1                | 11       | =       |    | _        | <u> </u>                  | <u> </u>     | <u> </u>     | <u> </u>       | <u> </u>       | <u> </u> |     |        | 61       | _        |   |   |   |      |          | _        |          | _        |
| 2<br>3           | 12       | =       | _  | <u> </u> | _                         | _            | <u> </u>     | _              | _              | <u> </u> |     |        | 62       | _        |   | _ |   | _    | _        | <u> </u> |          | $\dashv$ |
| 3                | 13       | =       |    | <u> </u> | <u> </u>                  | L            | <u> </u>     | _              | _              | _        |     |        | 63       | $\Box$   |   | - |   |      |          | -        |          | $\dashv$ |
| 4<br>5<br>6<br>7 | 14       | =       | ļ  | <u> </u> | <u> </u>                  | ļ            | <u> </u>     | <u> </u>       | <del> </del> — | <u> </u> |     |        | 64       | -        | _ |   |   |      | -        | -        |          | $\dashv$ |
| 2                | 15       | =       | _  | <u> </u> |                           | ⊢            | <del> </del> | <del>  -</del> | <del> </del>   |          |     |        | 65       | _        |   |   |   |      | _        | <u> </u> | _        | -        |
| <u>-</u>         | 16       | =       | _  | -        | -                         | ├-           | -            |                | -              | <u> </u> |     |        | 66       |          |   |   |   |      |          |          |          | $\dashv$ |
|                  | 17       | =       | _  | <u> </u> | ├                         | ⊢            | <u> </u>     | <u> </u>       |                | _        |     |        | 67       | -        | _ | - | _ |      | <u> </u> | $\vdash$ | _        | $\dashv$ |
| 8<br>9           | 18       | =       | _  | H        | ├                         | <u> </u>     | ┝            | ┝              | <del> </del>   | -        |     |        | 68       | -        | _ | - | _ |      | $\vdash$ | ⊢        | -        | $\dashv$ |
| <u>9</u>         | 19       | =       |    | <u> </u> |                           | ┝            | ┝            | -              | -              |          |     |        | 69       | Н        |   | - |   |      | $\vdash$ | ⊢        | -        | $\dashv$ |
| 0<br>1           | 20       | =       | _  | <u> </u> | ├-                        | -            | <u> </u>     | _              | <del> </del>   |          |     |        | 70       |          |   |   |   |      | Ш        |          | _        | -        |
| 늣                | 21       | =       | _  | ⊢        | -                         | _            | <del> </del> | <del>  -</del> | -              | -        |     |        | 71<br>72 | Н        |   |   |   |      |          |          |          | $\dashv$ |
| 2<br>3           | 22       | =       |    | -        | ├                         | -            | ├            | -              | ┝              |          |     |        | 73       | Н        |   |   |   | _    |          |          | -        | $\dashv$ |
| <u>ა</u>         | 23<br>24 | -       | _  | ┝        | ├—                        | <del>-</del> | -            | <u> </u>       |                | -        |     |        | 74       |          |   |   |   | _    |          |          |          | $\dashv$ |
|                  | 25       | Н       |    | -        | ┢                         | -            |              |                |                |          |     |        | 75       | Н        |   |   |   |      | -        |          | -        | $\dashv$ |
|                  | 26       | Н       | -  | H        | ┢                         | Н            |              |                | <del></del>    | ┢        |     |        | 76       |          |   |   | _ |      | $\vdash$ | _        | -        | $\dashv$ |
| _                | 27       | Н       | _  | $\vdash$ | ┢                         | H            | -            | —              | ┝              | ┢        |     |        | 77       |          |   |   |   | _    | $\vdash$ |          | $\dashv$ |          |
| _                | 28       |         | _  | $\vdash$ | <del>  -</del>            | $\vdash$     |              |                | -              | -        |     |        | 78       |          |   |   |   |      | -        |          |          |          |
|                  | 29       |         |    |          | $\vdash$                  |              |              |                | $\vdash$       | $\vdash$ | 1 1 |        | 79       | Н        |   | _ |   |      |          | -        | _        | $\vdash$ |
|                  | 30       |         |    |          | $\vdash$                  | -            | -            | _              | $\vdash$       | -        |     |        | 80       | П        |   |   |   |      |          |          |          | $\neg$   |
|                  | 31       |         |    |          |                           |              | _            |                | $\vdash$       | $\vdash$ | 1   |        | 81       |          |   |   |   |      |          |          |          |          |
|                  | 32       |         |    |          |                           | _            |              |                | $\vdash$       | $\vdash$ | 1   |        | 82       |          |   |   |   |      | $\vdash$ |          |          |          |
|                  | 33       |         |    |          |                           |              |              |                |                |          |     |        | 83       |          |   |   |   |      |          |          |          |          |
|                  | 34       |         |    |          |                           |              |              |                |                |          | li  |        | 84       | $\Box$   |   |   |   |      |          |          |          |          |
|                  | 35       |         |    |          |                           |              |              |                |                |          |     |        | 85       |          |   |   |   |      |          |          |          |          |
|                  | 36       |         |    |          |                           |              |              |                |                |          | ll  | $\neg$ | 86       |          |   |   |   |      |          |          |          |          |
|                  | 37       |         |    |          |                           |              |              |                |                |          |     |        | 87       |          |   |   |   |      |          |          |          |          |
|                  | 38       |         |    |          |                           |              |              |                |                |          |     |        | 88       |          |   |   |   |      |          |          |          |          |
|                  | 39       |         |    |          |                           |              |              |                |                |          |     |        | 89       |          |   |   |   |      |          |          |          |          |
|                  | 40       |         |    |          |                           |              |              |                |                |          |     |        | 90       |          |   |   |   |      |          |          |          |          |
|                  | 41       |         |    |          |                           |              |              |                |                |          |     |        | 91       |          |   |   |   |      |          |          |          |          |
|                  | 42       |         |    |          | L                         |              |              |                |                |          |     |        | 92       |          |   |   |   |      |          |          |          |          |
|                  | 43       |         |    |          |                           |              |              |                |                |          |     |        | 93       |          |   |   |   |      |          |          |          |          |
|                  | 44       |         |    |          | <u> </u>                  | L_           | L            | _              | _              | <u> </u> |     |        | 94       |          |   |   |   |      | Ш        | Ш        |          | _        |
|                  | 45       | Ш       | Щ  | L_       | L                         | L_           |              | L.,            | <u> </u>       | L        |     |        | 95       |          |   |   |   | L.   | <u> </u> | L        | $\perp$  | _        |
|                  | 46       | Ш       |    | L        | _                         | L.           | Ш            |                | Ш              |          |     |        | 96       | Ш        |   |   |   |      | Ш        | Ш        |          |          |
|                  | 47       | Ш       |    |          | _                         | L            |              | _              | <u> </u>       | _        |     |        | 97       | $\sqcup$ |   |   |   |      | Щ        |          |          |          |
| _                | 48       | Ш       |    |          | <u> </u>                  | <u> </u>     |              |                | <u> </u>       | <u> </u> |     |        | 98       | Ш        |   |   |   |      | Щ        | <u> </u> | $\Box$   | _        |
|                  | 49       | Ш       | _  | <u> </u> | <b> </b> _                | <u> </u>     |              | L-             | $\vdash$       | L.       |     |        | 99       | $\sqcup$ |   | _ |   |      | Ш        |          | _        | _        |
| _                | 50       | Ш       |    |          |                           | L            |              | Щ              |                | L        | ı l |        | 100      | Ш        | Ш |   | _ |      | Ш        | Ш        | Ш        | Ш        |

|       | ı  | L        | Ц        |          |          |      |          |          | ł        |                |
|-------|--|----------|----------|----------|----------|------|----------|----------|----------|----------------|
| Cli   | aim  | ·        |          |          | ī        | Date | <b>.</b> |          |          |                |
| Final | Original   |          |          |          |          |      |          |          |          |                |
|       | 101  |          |          | Г        |          |      |          |          |          | П              |
|       | 101<br>102<br>103<br>104<br>105<br>106<br>107  |          |          |          |          |      |          |          |          |                |
|       | 103  | <u> </u> | <u> </u> |          |          |      |          | _        |          | Ш              |
|       | 104  |          | <u></u>  | _        |          |      | _        | L.       | ļ        | Ш              |
| -     | 105  |          | <u> </u> | <u> </u> |          |      | -        | <u> </u> | <u> </u> | Н              |
|       | 107  | -        | $\vdash$ | $\vdash$ |          | -    | -        | —        | -        | Н              |
| -     | 108  |          |          | _        | -        |      |          |          |          | Н              |
|       | 108<br>109   |          |          |          |          |      |          |          |          | П              |
|       | 110  |          |          |          |          |      |          |          |          |                |
|       | 111  |          |          |          |          |      |          |          |          |                |
|       | 111<br>112<br>113<br>114<br>115  |          | L.       | <u> </u> | _        | _    | _        | _        | _        | Ш              |
|       | 113  |          |          | -        |          |      |          | _        |          | $\vdash$       |
|       | 115  | -        | -        | $\vdash$ |          | -    | _        | —        | _        | Н              |
|       | 116  |          |          | $\vdash$ | _        | _    | _        | -        | _        | Н              |
|       | 117  |          |          |          |          |      |          |          |          | П              |
|       | 118  |          |          |          |          |      |          |          |          |                |
|       | 119  |          |          |          |          |      |          |          |          |                |
|       | 120  |          |          |          |          |      |          |          |          | Ц              |
|       | 121  |          |          | _        |          |      |          |          |          | Ц              |
|       | 122  | $\vdash$ |          | ⊢        |          |      |          |          |          | Н              |
|       | 124  |          | _        | -        |          |      | —        |          |          | Н              |
|       | 125  | _        | _        | -        |          | _    |          | _        |          | $\vdash$       |
|       | 126  |          |          |          |          |      |          |          |          |                |
|       | 127  |          |          |          |          |      |          |          |          |                |
|       | 128  |          |          | _        |          | _    |          |          |          | Щ              |
|       | 116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131 | _        | _        | _        |          | _    | _        | -        | _        | Н              |
| -     | 130  |          | -        |          |          |      | _        |          |          | Н              |
|       | 132  |          | _        |          | -        |      | _        | -        |          | Н              |
|       | 133  | _        | _        |          | _        |      |          | _        |          | П              |
|       | 132<br>133<br>134  |          |          |          |          |      |          |          |          |                |
|       | 135<br>136   |          |          | $\Box$   |          |      |          |          |          | Ш              |
|       | 136  |          | _        | <u> </u> |          | _    |          | <u> </u> |          | Ш              |
|       | 137<br>138   | _        |          |          |          | -    | _        | _        |          | -              |
|       | 139  | _        | _        | _        | _        | H    | _        | _        |          | Н              |
|       | 140  |          |          |          | _        |      |          |          | _        | $\dashv$       |
|       | 141  |          |          |          |          |      |          |          |          | П              |
|       | 142  |          |          |          |          |      |          |          |          |                |
|       | 143  |          |          |          |          |      |          |          |          | Ш              |
|       | 144  | ļ        |          | _        |          | _    | _        |          | L        | Ш              |
|       | 145  | _        | _        | <u> </u> | _        | Н    | _        | _        |          | Н              |
|       | 146<br>147   | _        | H        | _        | -        | -    | _        | _        | —        | Н              |
|       | 148  |          |          | _        | -        | H    |          |          |          | $\vdash\vdash$ |
|       | 149  |          | _        | _        | $\vdash$ | П    | Т        | Т        | _        | H              |
|       | 150  |          |          |          |          |      |          |          |          | $\Box$         |
|       |  |          |          |          |          |      |          |          |          | _              |